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Model: R13

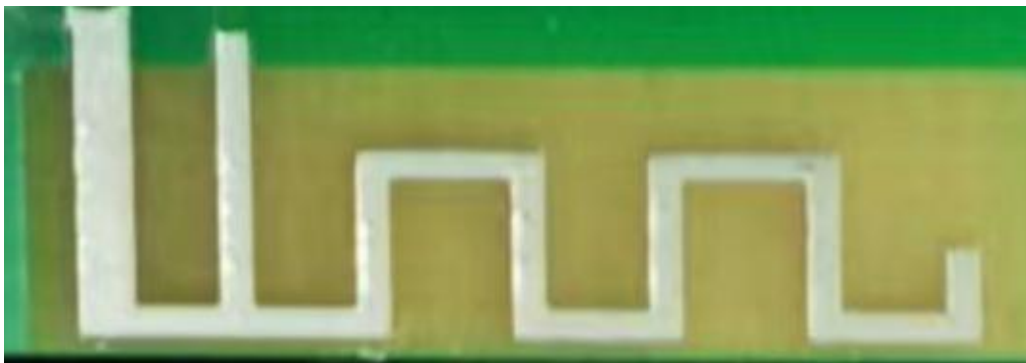
BT Antenna Test Report

1. Antenna Introduction

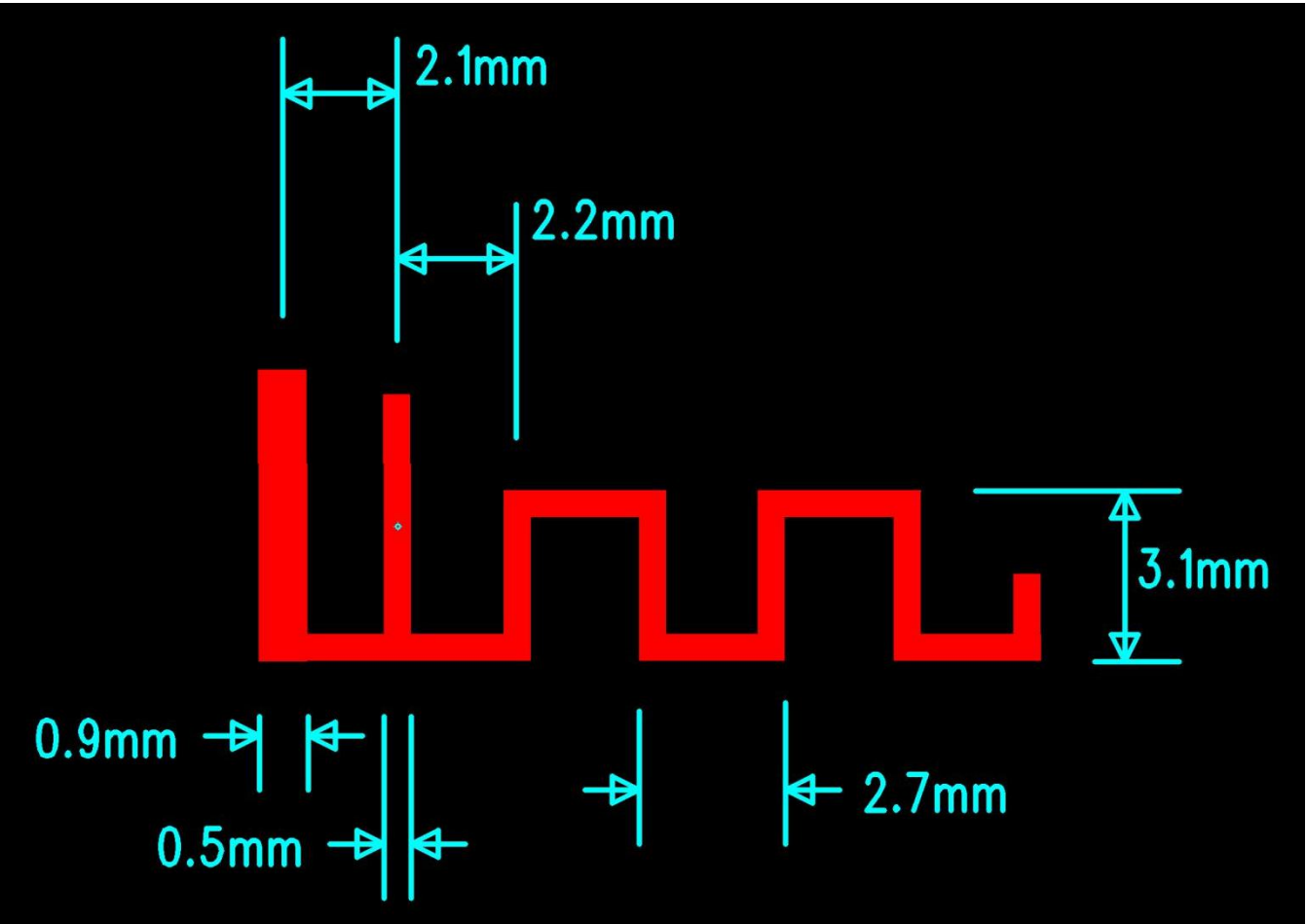
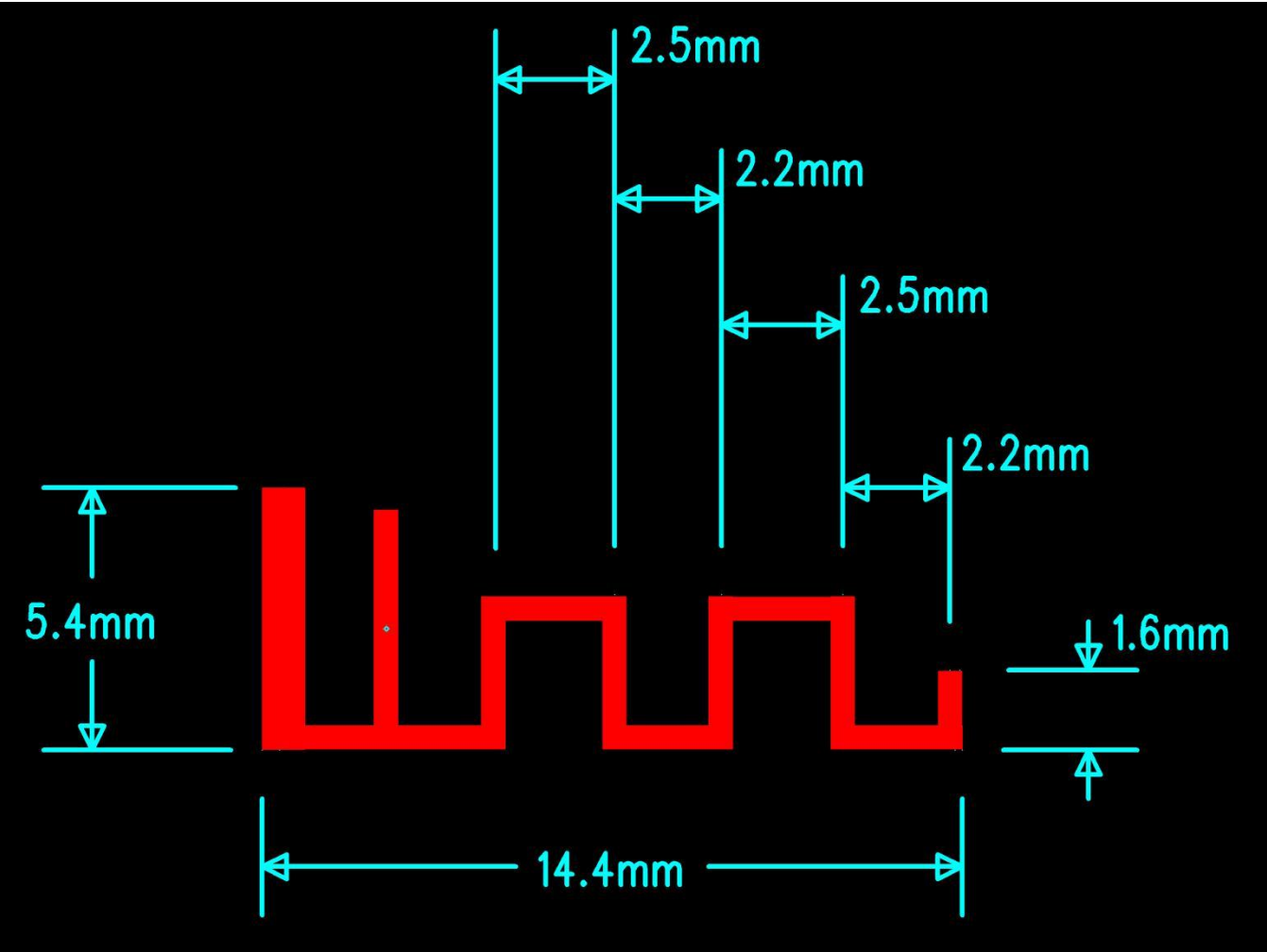
The Bluetooth antenna is directly mounted on the PCB board using a copper foil and tin spraying process. The copper foil thickness is 10Z, and the board material is FR-4 with a thickness of 1.6mm.

2. Antenna Appearance

1. Physical Picture



2. Dimensional Drawing 14.5mm * 5.4mm



3. Antenna Parameters

The Bluetooth working frequency is 2402-2480MHz

The Antenna parameters as following table

BT PCB Antenna	
Frequency (MHz)	2402 ~ 2500 MHz
VSWR	≤ 1.92
Impedance	50 Ohm Nominal
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	0.5 dBi
Polarization	Linear, Vertical
Admitted Power	2W
Connector	Tin

4. 、 Antenna Gain Test Report

Spectrum Detector: PK

Test Date : June 8, 2013

Test By: Andy

Temperature : 28°C

Test Result: PASS

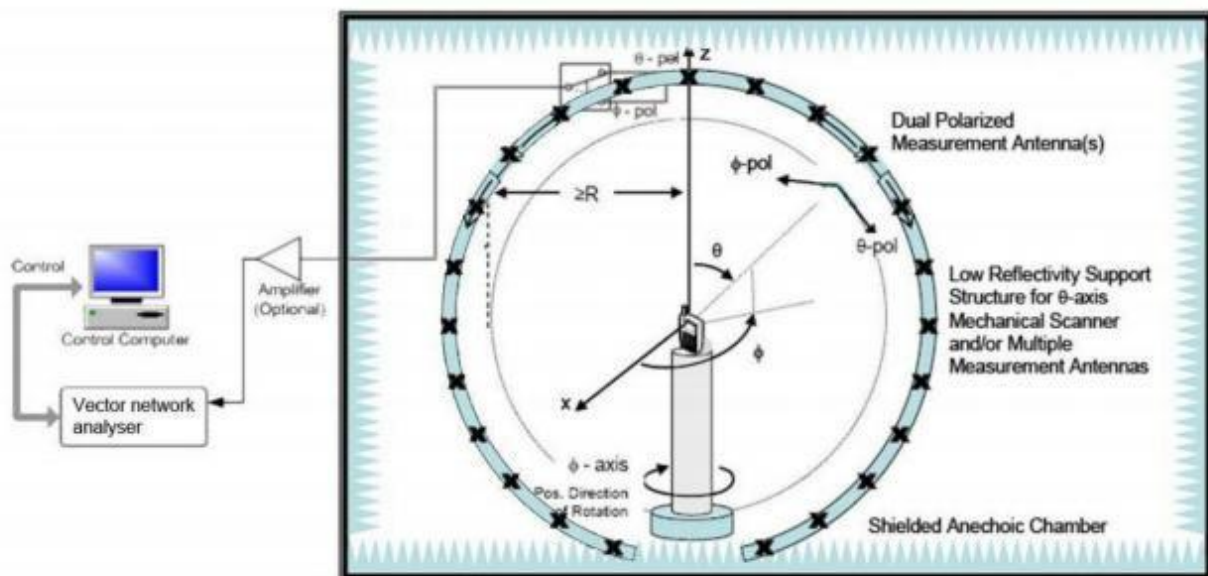
Humidity : 55 %

Modulation: GFSK

Maximum Gain:

Frequency (MHz)	Maximum Gain (dBi)
2400MHz	-0.41
2410MHz	-0.18
2420MHz	0.34
2430MHz	0.50
2440MHz	0.38
2450MHz	-0.01
2460MHz	-0.06
2470MHz	-0.42
2480MHz	-0.74
2490MHz	-0.85
2500MHz	-1.13

5. Test Setup:



6. 2D Radiation Pattern

